

	SITUATION	REPORT		
INCIDENT	COMMAND	POST	GOLD	KING
GOLD	KING	MINE	INCIDENT RELEASE	
U.S.	ENVIRONMENTAL	PROTECTION	AGENCY	



Security fence      installation      activities      around      Gladstone. 2015) Ponds      (04      Novem

Subject:                      EXECSUM      /      SITREP      #49  
                                     Gold      King      Mine      Release  
                                     San      Juan      County,      Colorado  
                                     Latitude:      37.8945      107.6384      Longitude:

From:                      Situation      Unit,      Incident      Command      Post      Gold  
 Date:                      10 November 2015  
 Reporting              Period 0700 03      November 2015 through      10 November 2015  
 Website:                      [www.epa.gov/goldkingmine](http://www.epa.gov/goldkingmine)



EXECUTIVE SUMMARY

**Situation** **Summary**

EPA Region 8the is Gold managKingg Ongoing Minefield activities. include water treatm  
and winterization activities at the Gold King Mine/Gladstone site.

**Objectives**

- Ensure health and safety of the public and responders.
- Continue provide deliveries to homes with Primary MCL Exo
- Continue coordinationederal, state, ftribal and local stakeholders.
- Mine Operations - partial list of additional planned activities at
  - GKM Portal
    - Additional Activities
    - Security Gate Installation
  - Upper Gladstone Area
    - Additional drainage and reclamation activities
    - Installation of additional fencing and (ongoing)age at Glads
    - Installation of additional fencing and (ongoing)age at Glads
    - Installation of run on controls alonging). east side c

**Command** **Emphasis**

For is operational period, the command emphasis

- Safety of responders and the public
- Visitors to the mine site and briefing. required toMindango Site through

The metrics provided in this Situation Report represent quantities  
0700 03 November2015 through 0700 10 November 2015. Highlighted text and metrics represent  
changes from previous SITREPs presented in Attachment 1.



## 1.0 BACKGROUND

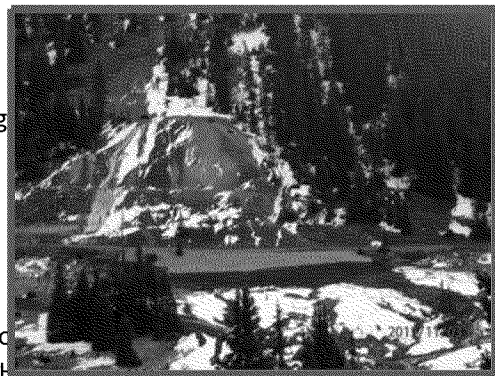
The Gold King Mine (GKM) near Silverton, Colorado is a historic gold mine at an elevation of approximately 11,300 feet above sea level. The mine discharge includes is a contributor of heavy metals into the Cement Creek m GKM workings have been inaccessible since 1995 when the m On 5 August 2015, an estimated 3 million gallons sediment and metals was suddenly released from the Gold King Creek Mine adit that feeds into the Animas River, and eventually flows into t US EPA contractor assets and efforts to mitigate from the release.

## 2.0 OPERATIONS

### 2.1 Mine Operations

#### 2.1.1 Current Operations Summary

- A pipeline is conveying water from Gold King Mine to the Gladstone ponds en route to water treatment system.
- Water treatment system is operational, including the tiered solid dewatering between 550 gallon to per minute.
- Water flowing from the ng Gold King Mine treated lime to adjust pH. The is being added mechanically at the clarification system.
- Winterization (building construction) the treatment complete. system is
- North Fork creek restoration is complete.
- Continued demobilization of equipment as it becomes no longer needed for r operations.
- Water quality monitoring of treatment system will continue through



Removal of Red and B

#### 2.1.2 Mine Operations Activities

- A partial list of additional planned activities at the GKM
- GKM Stabilization
    - Installation steel sets (first 60 feet inside mine).
    - Security Gate Installation
    - Foam concrete installation above steel sets
    - Installation of Flow e Control Structur
  - Upper Gladstone Area
    - Additional drainage and reclamation activities
    - Installation of a fencing and signage at Gladstone
    - Installation of run on controls along east side



## 2.2 River Sampling

U.S. EPA will be conducting activities according to the Long-term Monitoring Plan table below summarizes activities for surface sediment water sampling quantities based on the SCRIBE database, and include quality field control samples (QA/QC) and samples.

Table 1 - Operations Sampling Summary									
Matrix	U.S. Region	Quantity							
		November 2015							Cumulative
		3	4	5	6	7	8	9	
Surface Water Samples	8	4	0	0	0	0	0	0	739
	6	0	0	0	0	0	0	0	561
	9	0	0	0	0	0	0	0	310
		4	0	0	0	0	0	0	1,610
Sediment Samples	8	0	0	0	0	0	0	0	349
	6	0	0	0	0	0	0	0	553
	9	0	0	0	0	0	0	0	256
		0	0	0	0	0	0	0	1,158

## 2.3 Private Well Sampling

U.S. EPA has collected and analyzed samples from River drinking and San Juan River has been no sampling of private drinking Private samples that have metals concentrations greater than the M (MCLs) and were collected from private drinking wells during the first sampling event were sampled a second time to In confirm Region the 8, analytical results. round given proper were collected U.S. from EPA the as tapotified L residents that ha The table below provides summary of private drinking water sampling completed during this operational period

Table 2 – Private Drinking Water Well Sampling											
Matrix			U.S. EPA Region	Quantity							
				November 2015							Cumulative
				3	4	5	6	7	8	9	
Private Drinking Water Collected (from SCRIBE, includes)			8	0	0	0	0	0	0	0	449
			6	0	0	0	0	0	0	0	309

Notes: Some residential multiple results letters Some residential sampling included surface sampling water and/or sediment

Table 3 -Summary of Wells with		
Matrix	U.S. EPA Region	Cumulative
Wells containing concentrations above MCLs during second sampling event	8	4
	6	1*

\*Note: One well in Region 6 exceeded further assessment for by lead the and State New Mexico and the U.S. EPA, it was determined that the GKM incident.



## 2.4 Mitigation Activities

No public water systems are currently affected by the release or response EPA Operations continues to coordinate and deliver four bottled drinking water to below summarizes public support activities completed.

Table - Completed			Public		Support		(Cumul
Activity		U.S. Region	Qty. (gal)	Qty. (hay)	Qty. (salt)	bl	
Potable Water	Deliv	8	105,600				
Livestock Deliveries	/ Agricultural	8	133,770				
		6 Water	1,104,990				
		9	218,400				
		BIA	975,888				
Agricultural Food	De	6		244			
		9		8,448			
Agricultural Salt	Deliveries	8				500	

### 2.4.1 Water Tank

On or about 15 August 2015, 15 black steel tanks (16 ERRS contractor to certain locations on the Navajo Reservation. Mine released U.S. EPA has 15 water tanks from the Navajo Reservation.

### 2.4.2 Other Mitigation Activities

No other activities reported.

## 3.0 PLANNING

### 3.1 Environmental Unit

As of 02 November 2015, EPA contacted Region analytical completed mailing properties where U.S. EPA collected sediment and/or drinking water

### 3.2 Resources

The table below summarizes staffing entities numbers and agencies the activities of the King Mine Site

Table 5 - Personnel Site - 06 of Novem 2015			
Location	Agency / Entity	Number Personnel	
Mine Operations	U.S. EPA	2	
	USCG	2	
	U.S. EPA (Contractors average)	21	
	Visitors	0	
Total		25	

USCG = U.S. Coast Guard



#### 4.0 FINANCE

##### 4.1 Estimated Response Costs to Date

The table below summarizes estimated costs for November response

Table 6 - Estimated Response Costs Report November 2015 of					
U.S. Region	U.S. Cumulative Expended Payroll	U.S. Cumulative Expended Travel	U.S. Cumulative Other Charges	U.S. Cumulative Contractors Cost	Total Cumulative Costs
8	\$1,272,198	\$298,256	\$46,109	\$8,064,115	\$9,680,678
6	\$649,858	\$120,582	\$12,989	\$2,742,514	\$3,525,944
9	\$306,018	\$72,674	\$0	\$2,649,871	\$3,028,563
Total	\$2,228,074	\$491,512	\$59,098	\$13,456,500	\$16,235,185

##### 4.2 Estimated Burn Rates

The table below summarizes current estimated burn rates for

Table 7 - Estimated Daily as Burned November 2015			
U.S. EPA Region	Estimated Average Daily Burn		
8	\$20,000		
6	\$ -		
9	\$8,920		
Total	\$28,920		

#### 5.0 LOGISTICS

Logistics completed demobilization ICPGK the facility in Durango, Colorado October 2015.

#### 6.0 SAFETY

Safety did not recordable report injuries during illnesses operational period

#### 7.0 PUBLIC INFORMATION

##### 7.1 Community Engagements Public Events

Community engagements public that events occurred this during period : included

- None Reported

##### 7.2 VIPs/Congressional Visits

###### 7.2.1 Occurred Events

VIP / Congressional visits that occurred during this period included

- None.

###### 7.2.2 Anticipated Events

The table below summarizes visits k and scheduled for events days next



Table 8 - Anticipated Site Visits and Public Events			
Planned Event		Anticipated Date	
Animas River Stakeholders Meeting		17 November	

### 7.3 Call Center Notification Plan

U.S. EPA Headquarters continues a to national operate call center (844  
Personnel at the in EPA number are 8 Gold King Mine the Stakeholder  
and Notification Plan.

### 8.0 LIAISON

The list below summarizes regional local entities participating in the response.

U.S. EPA  
U.S. Coast Guard (USCG)  
U.S. Geological Survey (USGS)  
U.S. Army Corps of Engineers (USACE)  
U.S. Bureau of Reclamation (USBOR)  
U.S. Fish and Wildlife Services (USFWS)  
Colorado Office of Emergency Management (OEM)  
Colorado Department of Public Health and Environment (CDPHE)  
New Mexico Environment Department (NMED)  
New Mexico (NM) Department of Health  
NM Office of the State Engineer  
NM Department of Game and Fish  
State of Utah  
State of Arizona  
City of Durango  
La Plata County  
San Juan County  
San Juan Health Department  
County of - New Mexico  
Southern Ute Indian Tribe (SUIT)  
Navajo Nation

### 9.0 SOURCE OF ADDITIONAL INFORMATION

For additional information, refer to [www.epa.gov/goldkingmine](http://www.epa.gov/goldkingmine).



Exec. Sum/SITR (10 # November 2015)  
Gold King Mine Release  
ICP Kingd

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ATTACHMENT 1  
PRESS RELEASES





Exec. Sum/SITR #10 #10 November 2015)  
Gold King Mine Release  
ICP Kingd

NO	PRESS	RELEASES	FOR	THIS	OPERATIONAL	PERIOD
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